Automatic Broaching Lines and (Cont.) SOV/5861

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DV/wrc/jw
1/17/62

YUDOVINA, S. A.

Interaction of gravitational and electroosmotic water flow in a porous medium. Trudy Len. gidromet. inst. no.11:220-234 '61. (MIRA 16:1)

(Soil percolation)

GOKELIK, B.V., dotsent, kandidat tekhnicheskikh nauk; LEVINZON, A.Z., dotsent, kandidat tekhnicheskikh nauk [deceased]; YUDOVINA, S.A., assistent.

Electric and optical hygrometer. Elektrichestvo no.1:80-82 Ja '49. (MLRA 7:10)
(Hygrometry)

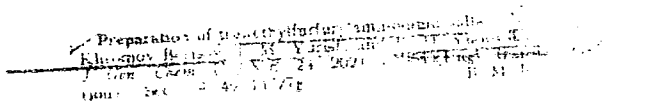
SAKS, V.N., geolog; SHUL'GINA, N.I., paleontolog; BASOV, V.A., mikropaleontolog; YUDOVNYY, Ye.G.

Preliminary data on Jurassic and lower Cretaceous sediments in the Anabar Valley and in Anabar Bay obtained in 1958. Inform. biul.NIIGA no.11:22-30 '58. (MIRA 12:6)

1. Institut geologii Arktiki (for all). 2. Chlen-korrespondent Akademii nauk SSSR (for Saks).
(Anabar region--Geology, Stratigraphic)

RONKINA, Z.Z.; BASOV, V.A.; YUDOVNYY, Ye.G.; OCHAPOVSKIY, L.B.

Results of specific research in the Bol'shoy Begichev Island and Khara-Tumus Peninsula in 1959. Inform. biul. NIIGA no.17: 45-52 '59. (MIRA 13:11)
(Bol'shoy Begichev Island--Geology, Stratigraphic)
(Khara-Tumus Peninsula--Geology, Stratigraphic)



Preparation of trimethylfurfurylammonium salts. [illegible] Kuimov-Borisov, I. M. Yurist, and B. D. Yo[illegible] (I. P. Pavlov 1st Med. Inst., Leningrad). *Zhur. Obshchei Khim.* 24, 2068-8(1954).—Furfurylamine (9.7 g [illegible]) ml. H_2O treated with 15 g. powd. K_2CO_3, then [illegible] cooling, with 50 g. MeI at 15-20°, the excess MeI distd. after [illegible] at [illegible]5°, the residue steam distd., evapd., extd. with [illegible] EtOH, and the ext. treated with EtOAc or BuOAc gave [illegible]% *trimethylfurfurylammonium iodide*, m. 118-20°. Similarly Me_2SO_4 and [illegible] furfurylamine in the presence of K_2CO_3 gave, in 1 hr. at 40-45°, 65-70% *trimethylfurfurylammonium methyl sulfate*, m. 66-71°, also obtained from the [illegible] with Me_2SO_4. [illegible] H_2SO_4Me [illegible] gave [illegible] *trimethylfurfurylammonium benzenesulfonate*, m. 135-6° (from EtOH-BuOAc). G. M. Kosolapoff

SKOMOROVSKIY, Ya.Z., kand. tekhn. nauk; TROKOZ, A.F.; FUDOVSKIY, D.G.

Determining the true angle of rotation of a pipeline laid on the transverse slope of an area. Trudy VNIIST no.15:161-165 '63. (MIRA 17:11)

YUDOVSKIY, O.V.

Random numbers transducer used for solving boundary value problems by mathematical statistics in the development of oil and gas reservoirs. Izv. vys. ucheb. zav.; neft' i gaz 7 no.3:103-105 '64. (MIRA 17:6)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M. Gubkina.

L [illegible]-65 EWT 1/

ACC NR: AT6017642 (A) SOURCE CODE: UR/2982/65/000/058 [illegible]

AUTHOR: Yudovskiy, O. V.

48
B+1

ORG: None

TITLE: Random number generators with automatic correction

SOURCE: Moscow. Institut neftekhimicheskoy i gazovoy promyshlennosti. Trudy, no. 58, 1965. Elektronika i vychislitel'naya tekhnika v neftyanoy, gazovoy i khimicheskoy promyshlennosti (Electronics and computer engineering in the petroleum, gas and chemical industry), 77-79

TOPIC TAGS: computer technology, random noise signal, number, noise generator, computer component

ABSTRACT: The author describes two systems for generating random numbers with automatic correction. In the first system (see figure 1) a noise signal is sent from ИШ through amplifier У to the input of shaper Ф. The square pulses from the shaper are fed to the input of rectifier Р which is closed until control pulses are received from the generator ГИ. The arrival of a control pulse opens rectifier К and a random number is formed in register Р in a time interval Δt determined by the duration of the control pulse. The value of the resultant number is determined by elementary logic circuit СО and a pulse is sent to counter $СЧ_1$ or $СЧ_2$ depending on whether the number

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falls in the first or last interval for division of the section. Numbers which do not fall into either of these sections are thrown out. The cycle is repeated until the entire sample n has been taken, and a control pulse is then fed from the sampling counter $СЧ_3$ to counters $СЧ_1$ and $СЧ_2$ which send control signals to comparator C proportional to the weights of the digital places in the counters. A control signal is sent from this comparator to the grid of the shaper tube which increases or reduces the level of the noise signal necessary for forming the square pulses. The second system (see figure 2) is designed for generating random numbers according to a predetermined arbitrary distribution law. A variational series of numbers distributed according to the given law is periodically generated in the form of a voltage curve by generator ГЗ. A number generator with homogeneous distribution ($ДС_{рр}$) is used for random and equally probable sampling of amplitudes on the voltage curve. The uniformly distributed numbers are fed to counter СЧ. Various numbers of cadence pulses from generator ГИ are required for overfilling counter СЧ depending on the magnitude of the number fed to the counter. The pulse generator is started simultaneously with generator ГЗ after formation of the number in counter СЧ. Thus the time intervals from triggering of generator ГИ to the appearance of the overfill unit in counter СЧ are random quantities uniformly distributed with respect to the time interval. The overfill unit in counter СЧ opens rectifier K at random moments. This means that when time τ for generation of the voltage curve coincides with the time τ' necessary for filling empty counter СЧ, a voltage with a definite magnitude appears at the output of rectifier K at the moment when it opens. If the process is repeated N times, there

are N randomly distributed equally probable voltages produced by generator ГЗ. The continuous random quantities may be changed to discrete form by voltage-to-code convertor НК and fed to buffer register БР. Control pulse ИУ triggers the device. Orig. art. has: 2 figures.

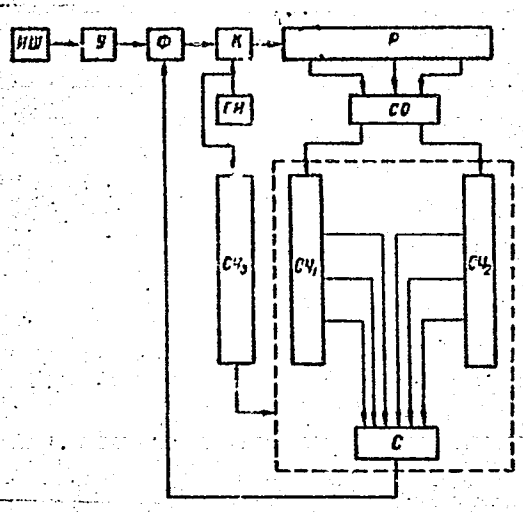

Figure 1. Block diagram for the random generator with homogeneous distribution: ИШ--noise source; У--amplifier; Ф--shaper; К--rectifier; ГИ--control pulse generator; $СЧ_1$ and $СЧ_2$--number counters; $СЧ_3$--sample space counter; С--comparator; СО--device for evaluating the magnitude of the number.

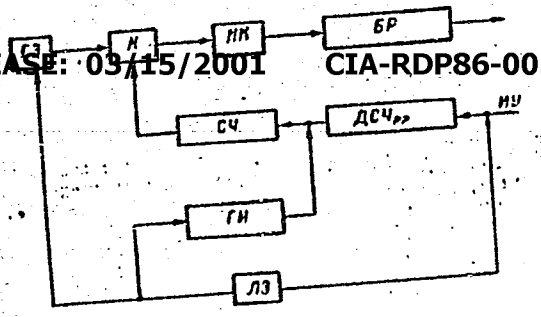

Figure 2. Block diagram of the system for generating random numbers according to a predetermined arbitrary distribution law: ГЗ--voltage generator; К--rectifier; НК--voltage-to-code convertor; БР--buffer register; СЧ--counter; ДСЧрр--generator for homogeneously distributed random numbers; ГИ--cadence pulse generator; ЛЗ--delay line; ИУ--control pulse.

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 000

YUDOVSKIY, Oleg Vladislavovich, aspirant

Transducer of random numbers. Izv. vys. ucheb. zav.; elektromekh. 7 no.5:607-611 '64. (MIRA 17:9)

1. Kafedra elektroniki i vychislitel'noy tekhniki Moskovskogo instituta neftekhimicheskoy i gazovoy promyshlennosti.

FUNKE, V.F.; YUDOVSKIY, S.I.; SAMSONOV, G.V.

Alloys of the system B, Ti, Fe. Zhur. prikl. khim. 34 no.5: 1013-1020 My '61. (MIRA 16:8)

(Boron-titanium-iron alloys)

IVANOV, Ye.; YUDOVSKIY, V.

"Revaluation of capital assets" by P.Bunich; "Organization of work for the revaluation of capital assets" by V.Gorelik, V.Ostroumov; "Methods for determining the depreciation of capital assets" by V.Anisimov, V.Ostroumov. Reviewed by E.Ivanov, V.IUdovskii. Fin.SSSR 20 no.10:89-92 O '59. (MIRA 12:12)

(Valuation) (Bunich, P.) (Gorelik, V.) (Anisimov, V.) (Ostroumov, V.)

Yudson, A.A.

133-2-4/19

AUTHORS: Borodin, V.P., Darmanyan, P.E., Yudson, A.A. and Vasil'yev, A.V. (Engineers)

TITLE: A Four-Period System of the Complex Automatic Control of Thermal Conditions of a Fuel-Oil Fired Open Hearth Furnace (Chetyrekhperiodnaya skhema svyazannogo avtoregulirovaniya teplovogo rezhima mazutnoy martenovskoy pechi)

PERIODICAL: Stal', 1958, Nr 2, pp.114-120 (USSR)

ABSTRACT: A scheme of automatic control of thermal conditions of oil-fired open hearth furnaces developed by the Central Laboratory of Automation and installed on the Nr 10 furnace of the above works is described. The scheme operates according to four programmes corresponding to four technological periods of the smelting process. Programme 1 includes a considerable part of the charging period and two thirds of the melting period; it is switched on by a motor relay of time, operated by photorelay during the tapping of steel. Programme 2 includes the remaining part of the smelting period; it is switched on by a motor relay of time operated when a stable excess in the preset roof temperature is attained. Programme 3 includes the refining period and is switched on by a motor relay of time operated at the moment of tapping slag. Programme 4 includes the fettling period

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133-2-4/19

A Four-Period System of the Complex Automatic Control of Thermal Conditions of a Fuel-Oil Fired Open Hearth Furnace.

and the beginning of the charging period of the next heat. Changing of programmes can also be hand operated. The scheme is shown in Fig.1. Fuel consumption is controlled according to the temperatures of the roof and regenerators. The following parameters are controlled: consumption of fuel oil, air-fuel ratio, amount of compressed air used in the atomiser, pressure of gases in the furnace, reverses, waste gas temperature at the bottom of the regenerators and draught in the waste gas flue. Characteristic data on the furnace on which the scheme was operated, operating practice and operating results are briefly described. The scheme operated satisfactorily, but the final conclusion regarding the efficiency of the scheme can be made only after an analysis of operating results of a few furnace campaigns. There are 9 figures.

ASSOCIATION: "Krasniy Oktyabr" Works and TsLA (Zavod "Krasnyy Oktyabr'" i TsLA)

AVAILABLE: Library of Congress.

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KUDRIN, V.A.; OYKS, G.N.; SOROKIN, S.P.; NECHKIN, Yu.N.; [illegible]
NAM, B.P.; LAPSHOVA, M.P.; YUDSON, A.A.; PETRENKO, G.I.;
ADRIANOVA, V.P.

Smelting high-grade steel in open-hearth furnaces fired with natural gas. Stal' 20 no. 7:599-602 Jl '60. (MIRA 14:5)
(Open-hearth furnaces--Equipment and supplies)

YUDSON, A.A.

85

PHASE I BOOK EXPLOITATION SOV/5556

Moscow. Institut stali.

Novoye v teorii i praktike proizvodstva martenovskoy stali (New [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Metallurgizdat, 1961. 439 p. (Series: Trudy Mezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

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New [Developments] in the Theory (Cont.) SOV/5556

COVERAGE: The collection contains papers reviewing the development of open-hearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, B.P. Nam, V.I. Yavoyskiy, G.N. Oyks and Ye. V. Chelishchev (Moscow Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets (Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp i molot" Metallurgical Plant); V.A. Puklev (Central Asian Polytechnic Institute)

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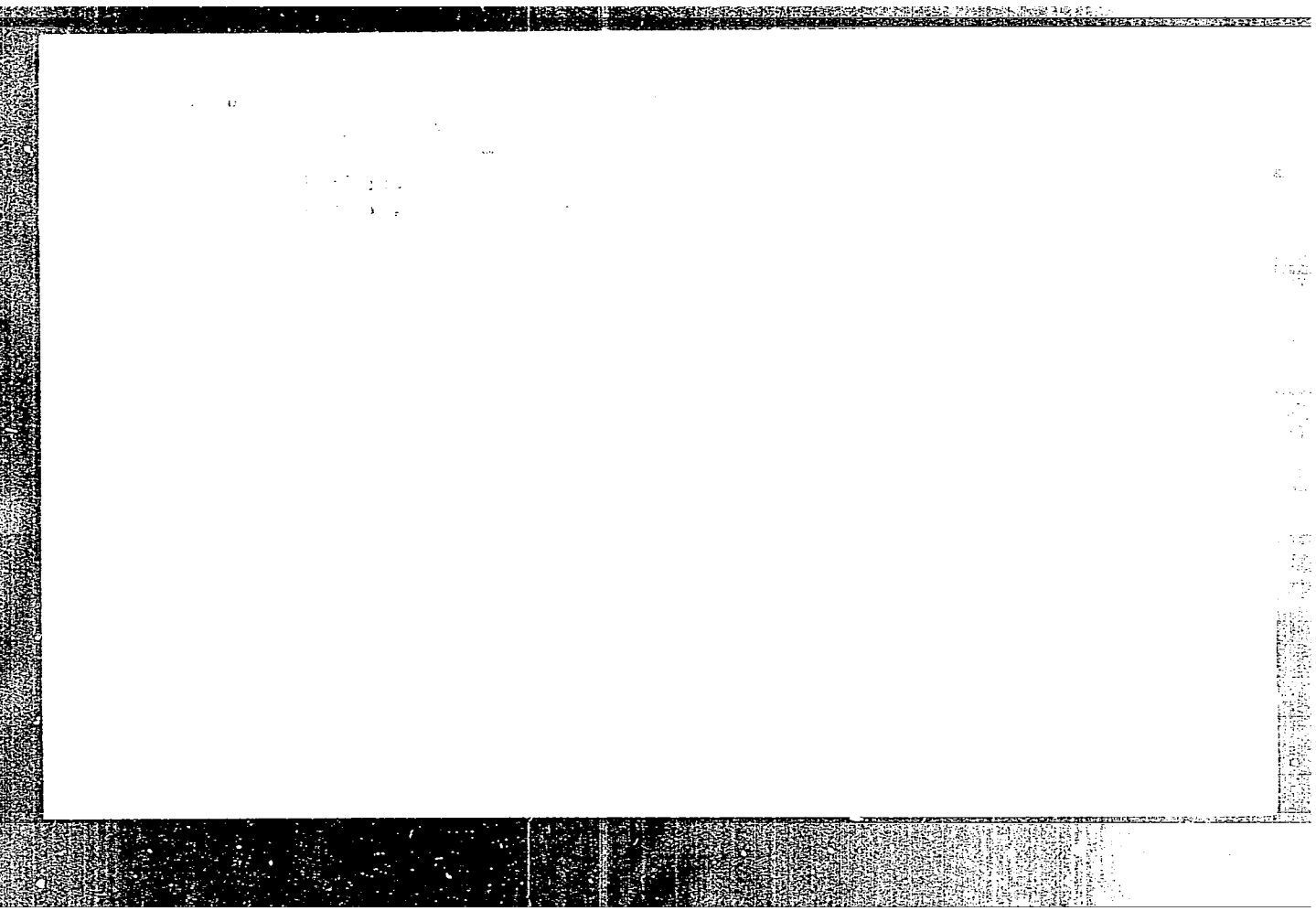
and M.I. Beylinov (Night School of the Dneprodzerzhinsk Metallurgical Institute). References follow some of the articles. There are 268 references, mostly Soviet.

TABLE OF CONTENTS:

BORODIN, V.P.; MARCHENKOVSKIY, G.F.; DARMANYAN, P.E.; YUDSON, A.A.; KUROCHKIN, B.N.

Furnace operations with heat insulated arches. Metallurg 6 no.2: 15-17 F '61. (MIRA 14:1)

1. Zavod "Krasnyy Oktyabr'" i Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskiy teplotekhniki.
(Open-hearth furnaces) (Refractory materials)



APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963110019-0"

YUDUSHKIN, N.G.

GOSTEV, B.I., kandidat tekhnicheskikh nauk; USHAKOV, A.D., kandidat tekhnicheskikh nauk; KOROBOVA, T.A., inzhener; AKOPYAN, S.I., kandidat tekhnicheskikh nauk, redaktor; VASIL'YEV, A.V., kandidat tekhnicheskikh nauk, redaktor; KRISTI, M.E., professor, redaktor; L'VOV, Ye.D., professor, redaktor; MALASHKIN, O.M., inzhener, redaktor; YUDUSHKIN, N.G., inzhener, redaktor; MODEL', B.I., tekhnicheskiy redaktor.

[Investigating cast iron with sheroidal graphite inclusions and its use for tractor parts] Issledovanie chuguna so sferoidal'noi formoi grafite i primenenie ego dlia traktornykh detalei. Moskva, Ges.nauchno-tekhn.izd-vo machinostroit.lit-ry, 1963.36 p. (Moscow. Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut [Trudy], no.7) (MIRA 9:1)

1.Direktor nauchno-issledovatel'skogo tekhnologicheskogo instituta (for Akopyan).

(Cast iron) (Tractor industry)

P

GAS PRODUCER TRACTORS GB -58 AND GT-58. Velichkin, I. B., Yudushkin, V.G. and Artomonov, M. D. (Auto. i Trakto. Prom. (Auto. and Tractor Ind.) July 1951, 6-15

ARTAMONOV, M.D., kandidat tekhnicheskikh nauk; VELICHKIN, I.N., inzhener; AKOPYAN, S.I., kandidat tekhnicheskikh nauk, redaktor; GOSTEV, B.I., kandidat tekhnicheskikh nauk, redaktor; VASIL'YEV, A.V., kandidat tekhnicheskikh nauk, redaktor; KRISTI, M.K., professor, redaktor; L'VOV, Ye.D., professor, redaktor; MALASHKIN, O.M., inzhener, redaktor; YUDUSHKIN, N.G., inzhener, redaktor.

[Investigation of the G-58 gas engine] Issledovanie gazogeneratornogo dvigatelia G-58. Moskva, Gos.nauchno-tekh.izd-vo mashinostroit.lit-ry, 1954. 26 p. (Moscow, Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut [Trudy], no.11). (MLRA 9:1)

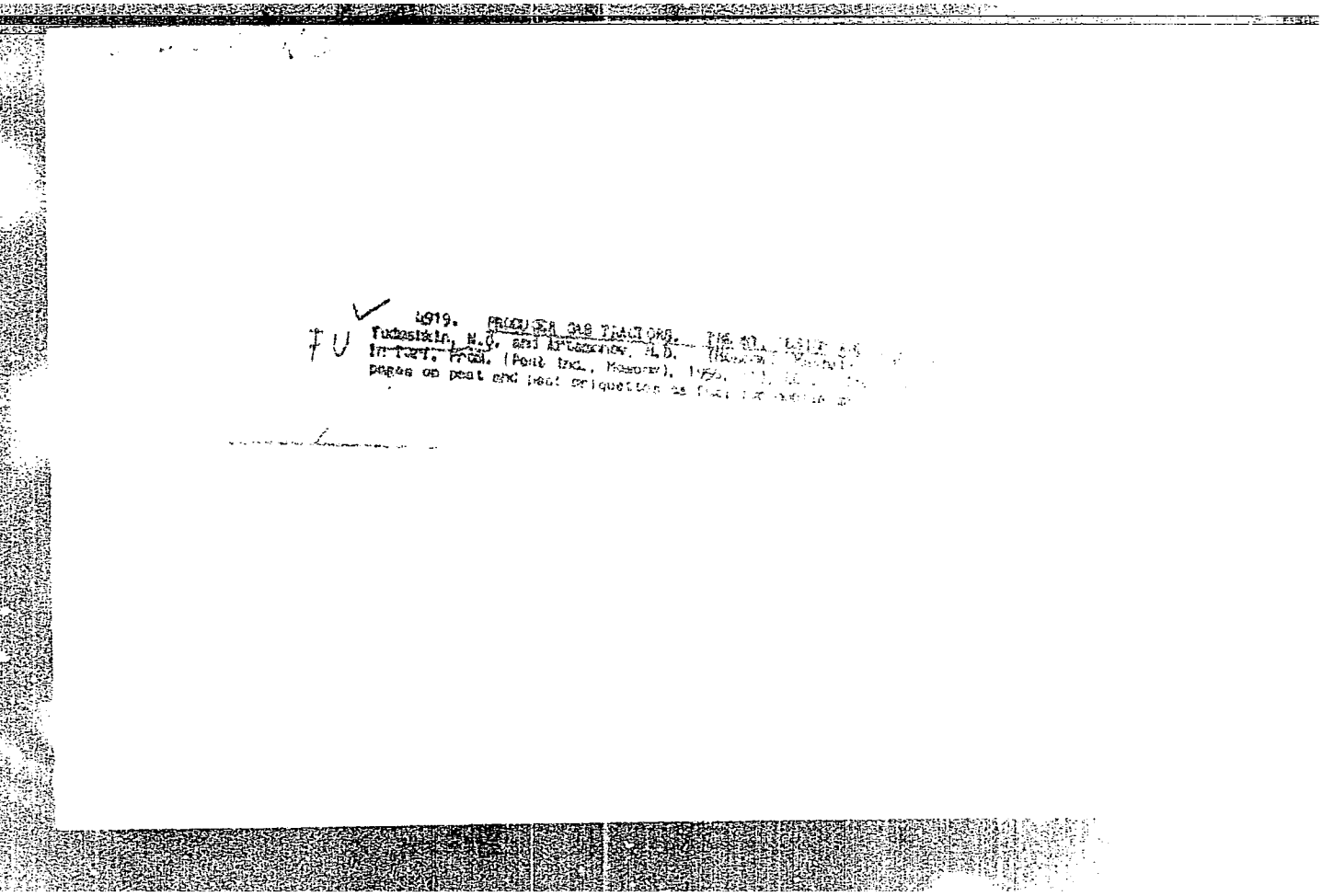
1.Diraktor nauchno-issledovatel'skogo avtotraktornogo instituta (for Akopyan). (Gas and oil engines)

YUDUSHKIN, N.G.

MALAKHOVSKIY,V.E., kandidat tekhnicheskikh nauk; AKOPYAN,S.I., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; GOSTEV,B.I., kandidat tekhnicheskikh nauk, zamestitel' direktora po nauchnoy rabote; VASIL'YEV,A.V., kandidat tekhnicheskikh nauk, redaktor; KRISTI,M.K professor, redaktor; L'VOV,Ye.D., professor, redaktor; MALASHKIN, O.M., inzhener, redaktor; YUDUSHKIN,N.G., inzhener, redaktor; PONOMAREVA,K.A., inzhener, redaktor; MATVEYEVA,Ye.N., tekhnicheskiy redaktor.

[Investigation of the efficiency of tractor transmission systems] Issledovanie koeffitsienta poleznogo deistviia traktornykh transmissii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 50 p. (Moscow, Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut. Trudy, no.10) (MLRA 8:9)

1. Direktor NATI (for Akopyan). 2. Zam. direktora po nauchnoy rabote (for Gostev).
(Tractors--Transmission devices)



YUDUSHKIN, N.G.

NISHEVICH, A.I., inzhener; AKOPYAN, S.I., kandidat tekhnicheskikh nauk, redaktor; GOSTEV, B.I., kandidat tekhnicheskikh nauk, redaktor; VASIL'YEV, A.V., kandidat tekhnicheskikh nauk, redaktor; KRISTI, M.K., professor, redaktor; L'VOV, Ye.D., professor, redaktor; MALASHKIN, O.M., kandidat tekhnicheskikh nauk, redaktor; YUDUSHKIN, N.G., inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor.

[New methods for determining the wear rate of tractor engine parts] Primenenie novykh metodov opredeleniia velichiny iznosa detalei traktornogo dvigatelia. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. [Trudy], no.14) (MLRA 9:10)

1. Direktor nauchno-issledovatel'skogo avtotraktornogo instituta (for Akopyan). (Tractors--Engines)

YUDUSHKIN, N.G.

ZUBIYETOV, I.P., inzh.; AKOPYAN, S.I., kand. tekhn. nauk, otv. red.; GOSTEV, B.I., zam. otv. red.; VASIL'YEV, A.V., kand. tekhn. nauk, red.; KRISTI, M.K., prof. red.; L'VOV, Ye.D., prof., red.; MALASHKIN, D.M., kand. tekhn. nauk, red.; YUDUSHKIN, N.G., inzh., red.; UVAROVA, A.F., tekhn. red.

[Standardizing fuel pump plungers used in the D-35 and D-54 tractor diesel engines] Unifikatsiia plunzherov toplivnykh nasosov dlia traktornykh dizelei D-35 i D-54. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry 1956. 14 p. (Moscow. Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut. [Trudy] no.15). (MLRA 10:9)

1. Direktor nauchno-issledovatel'skogo avtotraktornogo instituta (for Akopyan). 2. Zamestitel' direktora po nauchnoy rabote nauchno-issledovatel'skogo avtotraktornogo instituta (for Gostev).
(Tractors--Engines)

YUDUSHKIN, N.G., inzhener.

Study of the gasification of peat briquets. [Trudy] NATI no.13:23-48 '56. (Peat) (Gas producers) (MLRA 9:9)

VELICHKIN, I.N., kand.tekhn. nauk; AKOPYAN, S.I., kand. tekhn.nauk, otv.red.; GOSTEV, B.I., kand.tekhn.nauk, zam.otv.red; VASIL'YEV, A.V., kand. tekhn.nauk, red.; KRISTI, M.K., prof., red.; L'VOV, Ye.D., prof., red.; MALASHKIN, O.M., kand.tekhn.nauk; YUDUSHKIN, N.G., inzh.; [illegible] A.F., tekhn.red.

[Some characteristics of the performance of gas-producer engines] Nekotorye osobennosti rabochego protsessa gasogeneratornykh dvigatelei Moskva, Gos. nauchno-tekhn izd-vo mashinostroit. lit-ry, 1958. [illegible] p. (Moscow. Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut [Trudy], no.16) (MIRA 12:3)

(Gas and oil engines--Testing)

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 321 (USSR)

AUTHORS: Aglitskiy, V. A., Yudytskiy, A. P., Fedotova, Ye. I.

TITLE: On the Method of Noble-metals Assay of Blister Copper (O metodike oprobovaniya chernovoy medi na soderzhaniye blagorodnykh metallov)

PERIODICAL: Tr. i materialy. Ural'skiy n.-i. i proyektn. in-t medn. prom-sti, 1957, Nr 2, pp 355-360

ABSTRACT: The method of assaying (MA) blister Cu by means of sampling the liquid metal with a special mold-ladle without pouring the metal into a test mold. Several MA of crude CU for noble metal contents are given: Pattern drilling, taking of a liquid test sample from the converter or the laddle of the casting machine and granulation of liquid metal. The comparative character of the results obtained with different MA is given. It is shown that in taking the test by means of drilling the solid metal difficulties are encountered owing to the dirt present on the surface of the ingot, the uneven distribution of noble metals in the different sections of the ingot, and the different degrees of fineness of the separate structural components of the ingot.

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SOV/137-58-7-16169

On the Method of Noble-metals Assay of Blister Copper

in a different composition of the fine and the coarse fractions of the chips. The latter complicates the preparation of the test sample of chips for the analysis. It is determined that in the sampling of liquid crude Cu a great influence on the validity of the taking of the sample is exerted by the phenomena of liquation. The presence of liquation phenomena during the solidification of blister Cu has a telling effect on the noble-metal content in relation to the spot from which the sample was taken during the casting of Cu, whereas in the granulation of Cu its effect depends on whether the granulated metal is drawn directly from the stream of the metal tested or is granulated from the ladle.

A. M.

1. Copper--Analysis 2. Copper (Liquid)--Sampling 3. Copper --Test methods

Card 2/2

YUDYTSKIY, A.P.

Underground copper leaching practices. Biul TSIIN tsvet. met. no.1: 23-26 '58. (MIRA 11:4)

(Copper ores) (Leaching)

YUDYTSKIY, A.P., inzh.

Potentialities of the copper industry. Gor. zhur. no.4:7-8 Ap '60.
(MIRA 14:6)

1. Unipromed', Sverdlovsk.
(Copper mines and mining)

YUDZON, I. F.

"Impracticality in Communications Construction Planning," Vest. Svyazi, No.3, pp 23-24, 1954

Deputy Chief, SMU Lentelegonstroy

Translation Trans.No.533, 6 Apr 56

YUDZON, I.F.

High labor productivity is the basis of production achievements in building communication installations. Vest. sviazi 17 no.3: 28 Mr '57. (MLRA 10:4)

1. Zamestitel' nachal'nika stroitel'no-montazhnogo upravleniya "Lentelefonstroya".
(Telecommunication) (Building)

NEVSKIY, V.A.; YUDZON, I.F.

Eliminate the causes of unprofitableness in installation work.
Vest.sviazi 17 no.6:25 Je '57. (MIRA 10:8)

1.Proizvoditel' rabot stroitel'no-montazhnogo upravleniya "Lentelefonstroy" (for Nevskiy) 2.Zamestitel' nachal'nika stroitel'no-montazhnogo upravleniya (for Yudzon)
(Telephone)

YUDZON, O.I.

Simultaneous oscillographic video signal form control by the scanning line and the frame. Vest.sviazi 15 no.8:25-26 Ag'55. (MLRA 8:12)

1. Inzhener Leningradskogo teletsentra
(Television--Apparatus and supplies--Testing) (Oscillograph)

YUDZON, O.I

TELEVISION

"Operation of Television Transmitting Tube with Long Camera Cable", by O.I. Yudzon, Elektrosvyaz', No 8, August 1957, pp 71-73.

The author suggests a new method for compensating for the time delay produced by long television camera cables. Each camera channel contains a network, which permits time delay of the horizontal pulses of the transmitting tube by an amount equal to the difference between the duration of the line (64 microseconds) and the time delay corresponding to the length of the camera cable employed.

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1. YUFA, B. Ya - LIOGEN'KIY, S. Ya
2. USSR (600)
4. Geophysics - Novgorod Province
7. Report on the activity of the Komarovo geophysics party in the Lyubytino and Borovichi Districts of the Novgorod Province. (abstract) Izv. Glav. upr. geol. fon. no. 3, 1947

9. Monthly list of Russian Accessions, Library of Congress, March 1953, Unclassified

IUFA, B.Ia.

Remarks on I.P.Sharapov's article "Control analyses of geological specimens." Reviewed by B.Ia.IUfa. Razved. i okh. nedr 20 no.5:60-63 S-O '54. (MLRA 10:1)
(Mineralogy, Determinative) (Ores--Sampling and estimation)

YUFA, B.Ya.

Concerning V.L. Shashkin's errors in check sampling. Trudy Inst. geol. AN Kir. SSR no.10:193-200 '58. (MIRA 12:9)
(Ores--Sampling and estimation)

OZHINSKIY, I.S.; SOKOLOV, P.V.; YUPA, B.Ya.; MUKHIN, S.S., red.izd-va; BYKOVA, V.V., tekhn.red.

[How to prospect for uranium ores] Kak iskat' uranovye rudy. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr, 1959. 54 p. (MIRA 13:11)
(Prospecting) (Uranium ores)

YUFA, B.Ya.

Method for calculating occasional errors of analyses of mineral resource appraisals. Razved.i okh.nedr 26 [illegible]

1. Ministerstvo geologii i okhrany nedr SSSR.
(Mines and mineral resources)

YUFA, B.Ya.

Evaluation of the accuracy of continuous recording of the results of physical measurements. Razved. i okh. nedr 27 no.1:48-49 Ja '61. (MIRA 17:2)

1. Ministerstvo geologii i okhrany nedr SSSR.

OZHINSKIY, I.S.; SOKOLOV, P.V.; YUFA, B.Ya.; CHUMACHENKO, Z.N., red. izd-va; BYKOZA, V.V., tekhn. red.

[How to search for uranium ores] Kak iskat' uranovye rudy. Izd.2., ispr. i dop. Moskva, Gosgeoltekhizdat, 1962. 55 p. (MIRA 16:3)
(Prospecting) (Uranium ores)

YUFA, B.Ya.

Determining the quality factor of analytic radiometers.
Geofiz. prib. no. 12:82-89 '62. (MIRA 17:5)

1. Ministerstvo geologii i okhrany nedr SSSR.

YUFA, B.Ya.

Equations for mean random errors in analyses and use of these equations for evaluating the reproduction of radiometric determinations. Zav.lab. 28 no.3:329-336 '62. (MIRA 15:3)

1. Ministerstvo geologii i okhrany nedr SSSR.
(Materials--Analysis) (Mathematical analysis)

YUFA, B.Ya.

Method of excluding samples with a relatively very high ore content. Razved. i okh. nedr 28 no.8:19-23 Ag '62. (MIRA 15:8)

1. Ministerstvo geologii i okhrany nedr SSSR.

YUFA, B.Ya.

Appraisal of the metrological parameters of a "Neutron" type unit. Zav. lab. 30 no.7:872-875 '64. (MIRA 18:3)

YUFA, B. Ya.

"Theories of improbabilities" in B.S. Levonik's book "Problems of economic geology". Sov. geol. 7 no.5:156-158 My '64 (MIRA 18:2)

YUFA, E.P., inzhener; KORETSKIY, G.I., inzhener; CHERNITSKIY, M.M., inzhener.

Running-in journals of large shafts instead of grinding. Vest.mash. 36 no.10:55 O '56. (MLRA 9:11)
(Shafts and shafting)

SOV/122-58-7-29/31

AUTHORS: Yufa, E.P., Engineer and Tenishskiy, V.Ye.

TITLE: Powder Metallurgical Components (Metallokeramicheskiye izdeliya)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 7, pp 84-85 (USSR)

ABSTRACT: The advantages and production methods are surveyed with emphasis on electric contact and antifriction materials. Controlled porosity in contact materials enables the pores to hold the low-melting alloy fused by the breaking arc, which prevents welding. A contact pair, with a stationary contact of a silver carbon composition and a moving contact of a silver nickel composition has been successful. To increase the mechanical strength of the moving contact, a new silver nickel carbon composition permitting up to 8 kg/cm^2 pressure compared with 4 in the older type, has been developed under the direction of L.S. Palatnik, Doctor of Physical and Mathematical Sciences, Professor, by the Khar'kovskiy elektromekhanicheskiy zavod (Khar'kov Electro-mechanical Works) in co-operation with departments of the Khar'kovskiy gosudarstvennyy universitet (Khar'kov State University) imeni Gor'kogo and Khar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnical Institute)

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imeni Lenina. Another group of materials, a composition of silver and cadmium oxide, is used in AC relays working in special atmospheres. The silver powder is prepared at the Khar'kov Works by the electrolytic method which produces a sponge of 10 μ particles. A special method for pulverising the sponge avoids work-hardening the particle surfaces and a loss of dendritic structure. In the pressing of components, the observance of optimum pressure is vital. Experience of the Khar'kov Works has shown that the porosity can be reduced to 2-3%, instead of the customary 5-7%. Sintering is carried out in a hydrogen atmosphere at 850 °C during 2.5 hours. Silver-cadmium oxide components are sintered without protective atmosphere for 1 hour at 830 - 850 °C. Calibration follows at pressures of 4 000 - 5 000 kg/cm^2. Oil-impregnated bronze-graphite bearings are made by the Khar'kov Works. Iron graphite bearing sleeves up to 150 mm dia and 60 mm length for silent electric motors are being developed by the works in co-operation with the Institut metallokeramiki AN USSR (Powder Metallurgy Institute of the Ukrainian Ac.Sc. SSR). Made with 20-25% porosity, the composition contains 97% iron powder and 3% graphite. Carburising

Powder Metallurgical Components SOV/122-58-7-29/31

by sintering in a carburising medium is practised on powder metallurgical iron components. It is stated that bearings of a table top fan made of an iron-graphite composition have seven times the service life of fabric reinforced plastic bearings and twice the service life of bronze graphite bearings.
There is 1 table.

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SOV/122-59-3-26/42

AUTHORS: Yufa, E.P., Lecturer, and Dynshits, M.A., Engineer

TITLE: On the Ways of Specialisation in Tool Manufactures (O putyakh spetsializatsii instrumental'nykh proizvodstv)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 3, pp 76-77 (USSR)

ABSTRACT: The increased importance of specialised tooling within the total tool requirements is emphasised. The Khar'kov Economic Council, in promoting the specialisation of tool manufacture, has chosen the creation of specialised departments in the tool shops of engineering works to produce in centralised fashion a standard range of tools. A project was submitted to the Economic Council by the appropriate division of the Ukranian Branch of the Gosplan in co-operation with the Department of Industrial Economics and Organisation at the Khar'kov Polytechnic Institute (Khar'kovskiy Politekhnicheskiy Institut) 'Imeni V.I. Lenina'. Estimated savings are stated. An average percentage is 28%. Special equipment would pay off in 5 months. Nevertheless, specialised enterprises could achieve much higher savings. Certain types of tooling should be produced within suitable existing manufacturing organisations. For

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On the Ways of Specialisation in Tool Manufactures

example, portable power tools should be produced where small motors are already manufactured. Measures of standardisation needed for successful specialisation are discussed.

Card 2/2

YUFA, E.P.

[Organization of metal-cutting tool supply at a machinery plant; manual for the course "Industrial economics and organization of enterprises"] Organizatsiia instrumental'nogo khoziaistva mashinostroitel'nogo zavoda; uchebnoe posobie po kursu "Ekonomika promyshlennosti i organizatsiia predpriiatii." Khar'kov, Khar'kovskii politekhnicheskii in-t im. V.I.Lenina, 1960. 29 p. (MIRA 17:4)

YUFA, Engel' Pavlovich; PAVLOV, S.P., inzh., retsenzent; PANTER, B.Ya., inzh., retsenzent; MIRKIN, A.A., inzh., red.; SALYANSKIY, A.A., red. izd-va; SMIRNOVA, G.V., tekhn. red.

[Cutting tool department of a machinery plant] Instrumental'noe khoziaistvo mashinostroitel'nogo zavoda. Moskva, Ges.nauchno-tekhnicheskoe izd-vo mashinostroit.lit-ry, 1961. 117 p. (MIRA 15:1)

(Machinery industry) (Metal-cutting tools)

YUFA, Engel' Pavlovich, inzh.; KIRIYENKO, Ye.G., kand. tekhn. nauk, retsenzent; KRAVETS, V.I., inzh., red.izd-va; KOZUR, T.I., tekhn. red.

[Manufacture of metalworking tools at a machinery plant; economics, organization and planning] Instrumental'noe proizvodstvo mashinostroitel'nogo zavoda; ekonomika, organizatsiia i planirovanie. Kiev, Gostekhizdat USSR, 1963. 225 p. (MIRA 17:1)

(Machinery industry—Management)
(Metal-cutting tools) (Metalworking machinery)

L 08518-67 EWT(d)/EWT(m)/EWP(c)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) IJP(c)
ACC NR: AM6019451 Monograph

Lyapunov, Mikhail Aleksandrovich (Candidate of Technical Sciences); Tsenta, YEvgeniy Leonidovich (Candidate of Technical Sciences); YUfa, Engel' Pavlovich (Docent)

Electric pulse machining of tough metals and alloys (Elektroimpul'snaya obrabotka vysokoprochnykh metallov i splavov) Kiev, Izd-vo "Tekhnika", 65. 0149 p. illus., biblio. 2,500 copies printed.

TOPIC TAGS: metal finishing, metalworking machinery, electric metal finishing, high strength metal, high strength alloy, precision finishing

PURPOSE AND COVERAGE: This book gives the principles of electric pulse working of parts made from tough metals and alloys. Also presented is the technology of finishing sectional surface, production and reconditioning of rigging equipment. The equipment for electric pulse working (fuel supply, machinery) is described, and recommendations are made for its use. The book is considered useful to technical engineers dealing with problems in the technical preparation of the production of machine construction courses in technical institutes.

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ACC NR: AM6019451

2

SUB CODE: 09 SUBM DATE: 29Oct65/ ORIG REF: 028

MASTYAYEV, N.Z.; ORLOV, I.N.; YUFEROV, F.M., dots., retsenzent; BOBOV, K.S., prof., retsenzent; LARIONOV, A.N., prof., red.[deceased]

[Hysteresis motors] Gisterezisnye elektrodvigateli; posobie dlia diplomnogo ii kursovogo proektirovaniia. Moskva, Mosk. energ. in-t. Pt.2. [Problems of design] Voprosy proektirovaniia. 1963. 186 p. (MIRA 17:2)

1. Chlen-korrespondent AN SSSR (for Larionov).

BALAGUROV, Vladimir Aleksandrovich; GALTEYEV, Fedor Fedorovich; LARIONOV, Andrey Nikolayevich, prof.[deceased]; BERTINOV, A.I., doktor tekhn.nauk, prof., retsenzent; YUFEROV, F.M., kand. tekhn. nauk, dots., red.; FRIDKIN, L.M., tekhn. red.

[Electrical machines with permanent magnets] Elektricheskie mashiny s postoiannymi magnitami. Moskva, Izd-vo "Energiia," 1964. 479 p. (MIRA 17:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Larionov).

YUFA, M.A.; SLUTSKIY, S.B., red.

[Furniture manufacture; bibliography of Soviet and foreign literature of 1958-1960 (first half year)] Proizvodstvo mebeli; bibliograficheskii ukazatel' otechestvennoi i inostrannoi literatury za 1958-1960 gg. (pervoe polugodie). Moskva, 1960. 144 p. (MIRA 15:5)

1. Moscow. TSentral'naya nauchno-tekhnicheskaya biblioteka lesnoy i bumazhnoy promyshlennosti.
(Bibliography--Furniture)

BOLDENKOV, R.P.; PEYCH, N.N., red.; YUFA, M.A., otv. red.

[Heat treatment of wood; bibliographic index of the Soviet literature for 1935-1961 for engineers and technicians] Teplovaia obrabotka drevesiny; bibliograficheskii ukazatel' otechestvennoi literatury dlia inzhenerno-tekhnicheskikh rabotnikov za 1935-1961 gg. Moskva, Gos.kom-t Soveta Ministrov RSFSR, 1962. 16 p. (MIRA 15:8)

1. Moscow. TSentral'naya nauchno-tekhnicheskaya biblioteka lesnoy i bumazhnoy promyshlennosti.
(Bibliography--Wood--Heat treatment)

YUFA, M.A., otv. red.

[Utilization of the wastes of the lumbering, sawmill and wood-working industries; bibliographic index of foreign literature for the period from 1955 to 1961]Ispol'zovanie otkhodov lesozagotovitel'noi, lesopil'noi i derevoobrabatyvaiushchei promyshlennosti; bibliograficheskii ukazatel' inostrannoi literatury za 1955-1961 gg. Moskva, GOSINTI, 1962. 53 p.
(MIRA 15:10)

1. Moscow. TSentral'naya nauchno-tekhnicheskaya biblioteka lesnoy i bumazhnoy promyshlennosti.
(Bibliography--Wood waste)

TVERDOVSKAYA, N.N.; OTLIVANCHIK, A.N., red.; YUFA, M.A., otv. red.

[Production of particle boards; bibliographical index of Soviet and foreign literature for 1960-1961] Proizvodstvo drevesnykh plit; bibliograficheskii ukazatel' otechestvennoi i inostrannoi literatury za 1960-1961 gg. Moskva, 1962. 93 p. (MIRA 16:10)

1. Moscow. TSentral'naya nauchno-tekhnicheskaya biblioteka lesnoy i bumazhnoy promyshlennosti.
(Bibliography--Particle board)

MAZARSKIY, S.M.; YUFA, M.S.

Sulfur dioxide exhaust fans made of vinyl plastics. Bum.prom. 32 no.2:16-17 F '57. (MLRA 10:5)

1.Rukovoditel' gruppy netipovogo oborudovaniya Giprobuma (for Mazarskiy) 2.Nachal'nik kislotnogo tsekha Syas'skogo tsellyulozno-bumazhnogo kombinata (for Yufa)
(Sulfur dioxide) (Exhaust systems) (Plastics)

YUFH, M.S.

VLADIMIRTSEV, V.P.; YUFA, M.S.

Use of conical vortex purifiers for the cleaning of tower acid. Bum. prom. 32 no.7:21 Jl '57. (MIRA 10:11)

1. Syas'skiy tsellyulozno-bumazhnyy kombinat.
(Sulfuric acid)
(Chemical engineering--Equipment and supplies)

82780

5.1200

SOV/184-59-5-8/17

AUTHORS: Varentsov, P.V., Candidate of Technical Sciences, Yufa, M.S., Engineer

TITLE: The Motion of a Layer of Solid Particles in Tubular Rotary Kilns

PERIODICAL: Khimicheskoye mashinostroeniye, 1959, Nr. 5, pp. 22-26 (USSR)

ABSTRACT: An attempt is made to describe the motion of a layer of solid [illegible] in a tubular rotary kiln, using the dimensional analysis [illegible] the function of different factors affecting the motion [illegible] and to establish conditions of furnace modeling. The law of motion of a layer of solid particles can be expressed as a function of variables:

$$\omega_s = f(\omega_g, \gamma_g, \gamma_s, \mu, d_s, D_K, \omega_K, \alpha_K, g, \beta_s, L_K, \ell_K)$$

where: ω_s - velocity of motion of solid particles, m/sec; ω_g - velocity of motion of the gas flow in the kiln, m/sec; γ_g - specific gravity of the gas, kg/m^3; γ_s - specific gravity of solid particles, kg/m^3; μ - gas viscosity, kg/sec · m^2; d_s - dimensions of solid particles, m; D_K - inner diameter of the kiln, m; ω_K - peripheral velocity of rotation of the kiln, m/sec; α_K - angle of inclination of the kiln, degrees; g - gravity acceleration, m/sec^2; β_s [illegible]

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The Motion of a Layer of Solid Particles in Tubular Rotary Kilns

repose of solid particles, degrees; L - length of the kiln, m, φ_K - degree of filling of the kiln cross-section, m^2. According to the π -theorem of the dimensional theory, three criteria and s... simplexes are derived. The explicit form of functional connection between the similarity criteria was established experimentally. The experiments were carried out using a kiln of 6 m length and ... m outer diameter. The inner diameter was 300 and 550 mm, depe... upon the test conditions. The gas-fired kiln was equipped wit... the necessary instruments and worked according to the counterf... principle. Four materials of different specific gravity were use... unsorted pyrite, crushed marble sand and coke. Each materia... divided into four fractions by screen sizing. The average si... particles of each fraction was determined with the "ФР -1" ... instrument. The angle of repose was determined by the metho... Koler (Ref. 11). The mean gas velocity was determined by the primary and secondary air consumption and by the amount of ... gas. The charging time was twice the time the material staye... the kiln. The instruments readings were recorded at 30-minu... intervals during the second half of the tests. After each ... average stay of the material in the kiln was determined by ...

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The Motion of a Layer of Solid Particles in Tubular Rotary Kilns

the weight of the discharged material by the average hourly charge. The graph, Figure 6, shows that the gas temperature variation does not affect the velocity of the layer of solid particles and can be expressed by a constant coefficient, depending only on the specific gravity of the material. The maximum difference of the value ω_s/ω_g for coke (specific gravity 1,944 kg/m^3) and unsorted pyrite (specific gravity 4,384 kg/m^3) was about 19%. Consequently, if for these materials one mean coefficient is taken, the maximum error will be 9%. Thus the criterion γ_g/γ_s can be neglected. The graph, Figure 1, shows that the dependence of ω_s/ω_g on L_k/d_s is expressed different materials by closely spaced horizontal lines. Consequently the mean velocity of a layer of solid particles is practically dependent of the kiln length and the criterion L_k d_s can be neglected. An equation is derived:

$$\frac{\omega_s}{\omega_k} = m\,Re^{-0.01}\,Ga^{0.33}\left(\frac{d_k}{\beta_s}\right)^{0.66}\left(\frac{\varphi_k}{d_s^2}\right)^{0.08}\left(\frac{D_k}{d_s}\right)^{0.33}$$

where m - coefficient depending on the kiln diameter. The coefficient m was determined experimentally for diameters 0.3 m and 0.55 m. For other diameters, it was computed. The velocity of the material in

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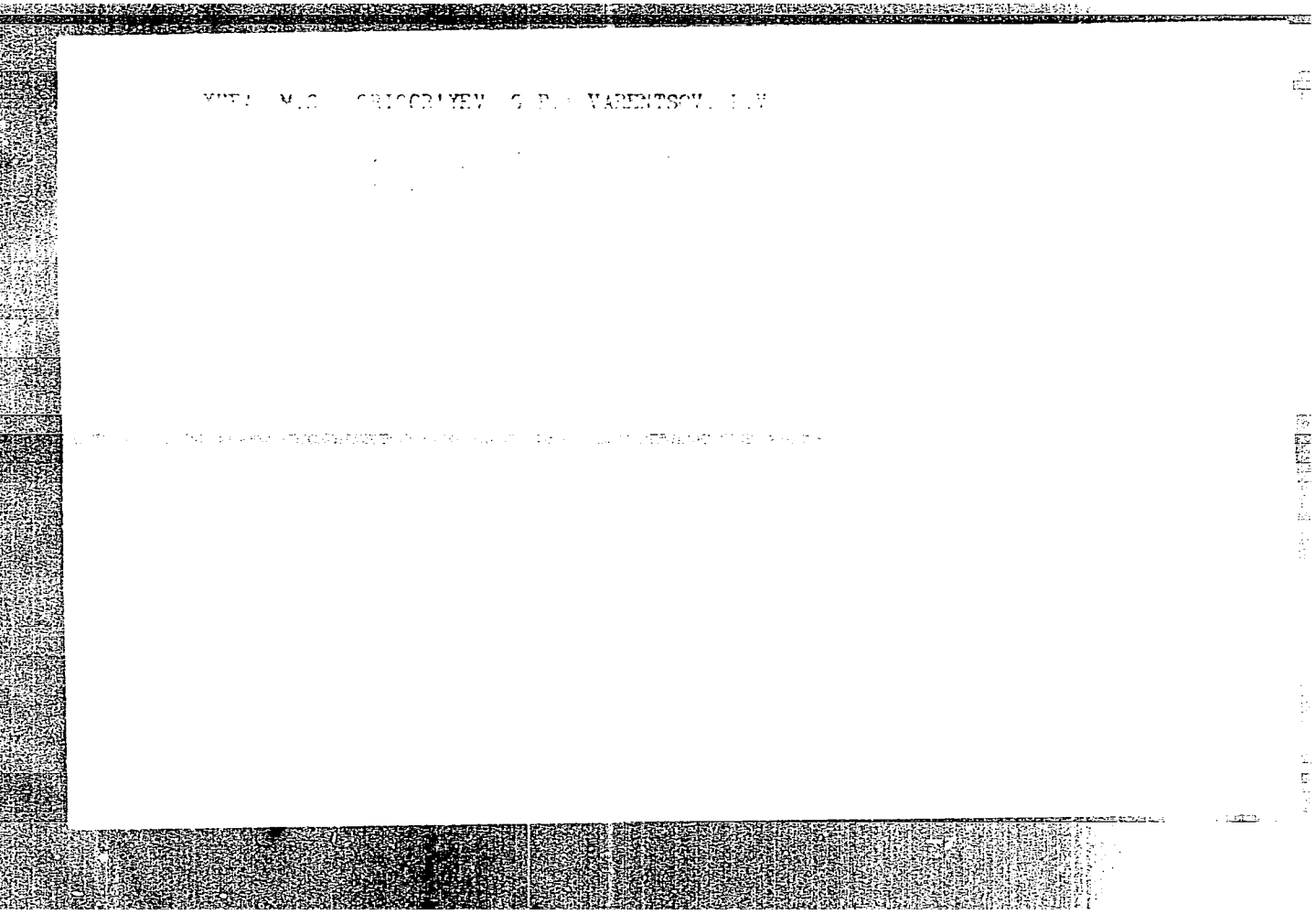
The Motion of a Layer of Solid Particles in Tubular Rotary Kilns

kilns of different diameters was calculated by the formula of Sullivan, Maier and Ralston (Ref. 1), which gives results fairly near to reality. The graph, Figure 9, shows that the experimental values of m are sufficiently close to the curve calculated by the above formula. There are 8 graphs, 1 diagram, 1 table and 11 references: 3 Soviet, 3 German and 5 English.



USSR.

Synthesis of 4,4'-dinitrodiphenyl sulfide. [illegible] and P. A. Yula. *Ukrain. Khim. Zhur.* 20, 71-2(1954)(in Russian).—4,4'-Dinitrodiphenyl sulfide (I), of value for synthesis of 4,4'-diaminodiphenyl sulfone and [illegible] can be produced in yield greater than that obtained by Gabel and A. L. Sh[illegible] (*C.A.* 34, 6244) if the Na_2S used contains some Na_2S_x. 4-Nitrochlorobenzene (31.5 g.) was dissolved by heating in 250 ml. of EtOH and a soln. of 24 g. cryst. Na_2S and 0.64 g. S in 72 ml. water added dropwise during 1 hr. to the gently boiling soln. After heating on a boiling water bath for 6 hrs., the ppt. was filtered off, washed with EtOH and hot water, and dried [illegible] 4% I, m. 150-7° (from glacial AcOH). Clayton F. Holoway

SERBRYANYY, S.B. YUFA, P.A.

Synthesis of 1-oxyphenazine derivatives. Ukr.khim.zhur. 22 no.4:512-513 '56. (MIRA 10:10)

1.Institut organicheskoy khimii AN USSR.
(Phenazine)

USSR/Organic Chemistry. Synthetic Organic Chemistry. E-2

Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19224.

Author : Syerebryanyi S. B., Yufa P.A.
Inst :
Title : Synthesis of 1-hydroxyphenazine Derivatives. 6. Haloid Derivatives of 1-hydroxyphenazine.

Orig Pub: Ukr. khim. zh. 1956, 22, No 4, 512-513.

Abstract: By desalkylization of corresponding methoxyderivatives 6-chlor-(I), 7-chlor-(II), 8-chlor-(III) and 7-brom-(IV)-1-hydroxyphenazines were obtained. A mixture of 0. 2 mole o-nitroanisole, 0.2 mole n-bromaniline, 50 g. KOH and 300cc C_6E_6 is boiled for 7 hours, and 1-methoxy-7-bromphenazine (V), yield 12.3%, m.p. 209-210° (chromatography on Al_2O_3; from ligr.) is obtained; as by-products 0.37g. 2-bromphenazine, m.p. 149-150°, and 1.01 g. 1,7-dimethoxyphenazine, m.p. 148-150° were isolated. A mix-

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Abs Jour: Ref Zhur-Khimiya, No 6, 1957, 19224.

ture of 1 g. of 1-methoxy-7-chlorphenazine, 2 g. $AlCl_3$ and 45cc C_6H_6 is boiled 5 hours, cooled off, decomposed with ice, and treated with conc. HCl, and by alkalizing slightly II, yield 92%, m.p. 191-192° (from alc.) is isolated. Analogically were obtained: from 0.08 g. 1-methoxy-6-chlorphenazine, 0.2 g. $AlCl_3$ and 10cc C_6H_6 -- 0.5g. I, m.p. 203-204° (from alc.), and from 1 g. V, 2 g. $AlBr_3$ and 75cc C_6H_6 --IV, yield 74%, m.p. 197-198° (from alc.). By heating 30 min. of a solution of 0.2 g. of 1-methoxy-8-chlorphenazine in 10 cc 65% H_2SO_4 III, yield 95%, m.p. 167-168° (from aqueous alc.) is obtained. Part 5 see RZhKhim., 1954, 41205.

Synthesis and properties of Sulfamethine—new anti-tubercular preparation. L. M. Kul'berg, S. G. Riklis, [illegible] A. Yuis, and R. P. Vel'tman (Ukrain. Tuberculosis S. Re-search Inst., Kiev). *Zhur. Obshchei Khim.* 26, [illegible] (1956)(Engl. translation); *J. Gen. Chem. U.S.S.R.* 26, 175-8; cf. *C.A.* 49, 10876d.—$(p\text{-}H_2NC_6H_4)_2SO_2$ (I) (2[illegible] g.) in [illegible] ml. warm EtOH treated with 28 g. $p\text{-}Me_2NC_6H_4CHO$ [illegible] ml. EtOH and the hot soln. treated with 18 ml. concd. H_2SO_4 added dropwise gave an orange ppt. which after washing with EtOH and satd. $NaHCO_3$ gave 35-40 g. Sulfamethine $[(p\text{-}Me_2NC_6H_4CH:NC_6H_4)_2SO_2]$ (II), yellow, decomp. 275-80°. It retards the growth of tubercular organisms. Refluxing an alc. soln. of I and $p\text{-}Me_2NC_6H_4CHO$ yields the *monomeric* azomethine which is inactive against tubercular organisms and m. 230-1°. Treatment of this in EtOH with H_2SO_4 readily yields II. Both are hydrolyzable by 0.1*N* HCl at room temp. and the extent of hydrolysis detd. by detn. of I colorimetrically by coupling with [illegible]. In neutral aq. medium the hydrolysis is slow but appreciable, the rate increasing rapidly with time. [illegible] monomer of II is not affected by $NaHSO_3$. II turns [illegible]. The x-ray pattern is shown for II and its monomer. [illegible]

The X-ray pattern is [illegible]

AUTHORS: Yagupol'skiy, L. M., Yufa, P. A. SOV/79-28-10-49/60

TITLE: Reaction of Phenyl-Phosphorus Tetrachloride With Diazomethane (Vzaimodeystviye chetyrekhkhloristogo fenilfosfora s diazometanom)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2853 - 2856 (USSR)

ABSTRACT: The reaction, investigated according to reference 1, of the aliphatic diazo-compounds with phosphorus halogenides showed that phosphorus tri- and phosphorus pentachloride react with diazomethane at -60 to -40°. In the case of the former chloride, the reaction ends at the stage of the monoalkyl derivative, with the formation of chloro-methyl-phosphorus dichloride; with phosphorus penta chloride it continues up to the trialkyl derivative, trichloro-trimethyl phosphine. The investigation of the reaction of aryl[illegible] chloride with diazomethane suggested itself. It was found that phenyl-phosphorus tetrachloride reacts most readily with it at -40°. After hydrolysis, a ω,ω'- dichloro-dimethyl-phenyl phosphine oxide was separated out.

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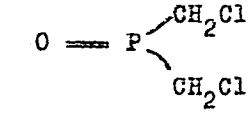
The reaction proceeds via the formation stage of ω,ω'-dichloro-dimethyl-phenyl phosphorus dichloride:

$$C_6H_5PCl_4 + 2CH_2N_2 \rightarrow N_2 + [C_6H_5P(CH_2Cl)_2Cl_2] \xrightarrow{H_2O} C_6H_5\overset{\overset{O}{\|}}{P}(CH_2Cl)_2$$

(I)

Compound (I), separated out in colorless prisms, is difficultly soluble in water and benzene, and solves well in alcohol and acetone. Its chlorine atoms in the chloro methyl groups do not react easily. The nitrification of (I) is achieved by means of a nitrating mixture, the nitro group entering, according to Sandmeyer(Zandmeyyer), into the meta-position (Reaction pattern 2). The same end product (IV) can also be obtained by the counter-synthesis 3. Thus the group



appears as a meta-position orientated substituent. There are 3 references, 2 of which are Soviet.

Reaction of Phenyl-Phosphorus Tetrachloride With Diazomethane

SOV/79-28-10-[illegible]

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR (Institute of Organic Chemistry at the AS UkrSSR)

SUBMITTED: July 30, 1957

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B001/B011

AUTHORS: Yagupol'skiy, L. M., Yufa, P. A.

TITLE: Phenyl-bis-(trichloromethyl)-phosphinoxide, Phenyl Trichloromethyl Phosphinic Acid, and Their Derivatives

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1294-1296

TEXT: The authors aimed at synthesizing compounds containing a phosphorus atom linked with the benzene ring and with one or two trichloromethyl groups. The oxide of ω,ω'-dichlorodimethyl phenyl phosphine (Ref. 1), which was chlorinated at 150-215°, served as the initial product. The resulting product was the oxide of phenyl-bis-(trichloromethyl)-phosphine (I)

$C_6H_5\overset{O}{\overset{\|}{P}}(CH_2Cl)_2 \rightarrow C_6H_5\overset{O}{\overset{\|}{P}}(CCl_3)_2$ (I). The oxide of ω,ω'-dichloro dimethyl-(p-chlorophenyl)-phosphine, which was obtained from p-chlorophenyl tetrachlorophosphorus and diazomethane, was chlorinated, and the oxide of p-chlorophenyl-

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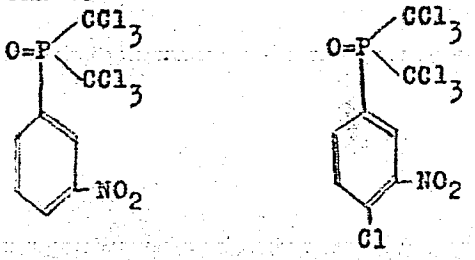
Phenyl-bis-(trichloromethyl)-phosphinoxide, Phenyl Trichloromethyl Phosphinic Acid, and Their Derivatives

S/079/60/030/04/56/060
B001/B011

bis-(trichloromethyl)-phosphine (II) was obtained. Both oxides (I) and (II) are colorless crystalline products and do not change on the action of aqueous acid- and alkali solutions up to 100°. They are so stable that they can be nitrated at 100° with the nitration mixture:



The ethyl ester of phenyl trichloromethyl phosphinic acid was taken as the initial product of the synthesis of the derivatives of the latter (Ref. 2). Investigations were extended to the reaction of ester (III) with PCl_5, with the acid chloride (IV) forming according to Scheme 2. In addition to the

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acid chloride (IV) there arises a certain amount of (V), according to Scheme 3. On heating the ester (III) with 3 moles of PCl_5 at 100-160°, a complex (VI) is formed (Scheme 4), which, on hydrolyzing, gives rise to the acid chloride (IV) in a quantitative yield. The authors became acquainted with the article by P. Biddle, I. Kennedy, I. Willans (Ref. 3) only after having completed their own investigation (Scheme 5). A paper by G. Kamay is mentioned (Ref. 2). There are 4 references, 2 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR (Institute of Organic Chemistry of the Academy of Sciences, Ukrainskaya SSR)

SUBMITTED: May 5, 1959

YAGUPOL'SKIY, L.M.; FIALKOV, Yu.A.; YUFA, P.A.

2-Trifluoromethylnaphthalene and its derivatives. Zhur.ob. khim. 31 no.12:3962-3970 D '61. (MIRA 15:2)

1. Institut organicheskoy khimii AN Ukrainskoy SSR.
(Naphthalene)

SEREBRYANYY, S.B., YUFA, P.A.

Amination of alkyl phenazinium salts. Ukr.khim.zhur. 29 no.3:322-325 '63. (MIRA 16:4)

1. Institut organicheskoy khimii AN UkrSSR.
(Phenazinium compounds) (Amination)

ARDASHEV, K.A., kand. tekhn. nauk; SHIK, V.M., inzh.; YUFEROV, P.A., inzh.

Characteristics of displacement, caving and overflow of rocks during the use of the shield mining method in "Kuksovsk-2" mine. [Trudy]VNIMI no.50:20-31 '63. (MIRA 17:10)

Yufa, I. P.

18(6) PHASE I BOOK EXPLOITATION SOV/3199

Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova

Analiz blagorodnykh metallov (Analysis of Noble Metals) Moscow, 1959. 193 p. Errata slip inserted. 2,700 copies printed.

Resp. Ed.: N. K. Pshenitsyn, USSR Academy of Sciences, Corresponding Member; and O. Ye. Zvyagintsev, Doctor of Chemical Sciences; Eds. of Publishing House: T. G. Levi, and D. N. Trifonov; Tech. Ed.: I. M. Guseva.

PURPOSE: This collection of articles is for scientists engaged in the study and analysis of the noble metals.

COVERAGE: This is a collection of articles on the analysis of the noble metals. It includes studies carried out by the Institute of General and Inorganic Chemistry im. N. S. Kurnakov (AN SSSR), as well as reports presented by scientific research organizations and by industrial enterprises at the Third and Fourth Conference on Noble Metals held in 1954 and 1957, respectively. The studies and reports describe new organic reagents for gravimetric determination of platinum metals, and physicochemical methods of analysis (spectrophotometric, polarographic and potentiometric). Special attention is given to spectral analysis for the determination of admixtures in alloys of platinum metals, silver, and gold, as well as in refined noble metals. The collection also includes analytical methods, tables and charts for materials containing metals of the platinum group, as well as a review of the literature on the analysis of platinum metals published in the last five years. No personalities are mentioned. References follow each chapter.

Yu Fa, T.P.

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YUFA, Ye.Ya.

Treatment of trichocephaliasis in children. Pediatriia no.6:36-38 N-D '55. (MLRA 9:6)

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(TRICHOCEPHALIASIS, in inf. and child
ther., benzine enema)
(PETROLEUM PRODUCTS, ther. use
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(ASCARIDS AND ASCARIASIS)

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Russian standards (Rus))

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(DIGESTIVE ORGANS--DISEASES)
(GASTROENTEROLOGY)